

Title (en)  
SPRING HAMMER FOR RAPPING A SURFACE

Title (de)  
GEFEDERTER HAMMER ZUM RÜTTELN EINER OBERFLÄCHE

Title (fr)  
MARTEAU AU RESSORT POUR FRAPPER D'UNE SURFACE

Publication  
**EP 4022242 B1 20230719 (EN)**

Application  
**EP 19765195 A 20190829**

Priority  
EP 2019073156 W 20190829

Abstract (en)  
[origin: WO2021037372A1] A spring hammer (10) for rapping a surface, the spring hammer comprising an anvil with an impact surface, which anvil can fastened to the surface to be rapped, a movable piston having a first end which is in operation moved towards the impact surface of the anvil, a guiding structure for guiding the piston to move in a defined direction with respect the anvil, and means for launching the piston to move the piston towards the impact surface of the anvil, wherein the piston is a solid block in which the first end of the piston is machined to an integrated flexible spring geometry.

IPC 8 full level  
**F28G 7/00** (2006.01); **B08B 7/02** (2006.01); **B25D 17/06** (2006.01)

CPC (source: EP US)  
**B08B 7/02** (2013.01 - EP US); **B25D 17/06** (2013.01 - EP US); **F28G 7/00** (2013.01 - EP US); **B25D 2217/0015** (2013.01 - EP US); **B25D 2217/0023** (2013.01 - EP US); **B25D 2250/371** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2021037372 A1 20210304**; AU 2019463015 A1 20220224; AU 2019463015 B2 20230119; CA 3145061 A1 20210304; CN 114341588 A 20220412; CN 114341588 B 20240213; EP 4022242 A1 20220706; EP 4022242 B1 20230719; EP 4022242 C0 20230719; ES 2960569 T3 20240305; JP 2022545617 A 20221028; JP 7308348 B2 20230713; PL 4022242 T3 20231227; US 2022274241 A1 20220901

DOCDB simple family (application)  
**EP 2019073156 W 20190829**; AU 2019463015 A 20190829; CA 3145061 A 20190829; CN 201980099666 A 20190829; EP 19765195 A 20190829; ES 19765195 T 20190829; JP 2022505438 A 20190829; PL 19765195 T 20190829; US 201917635132 A 20190829